SEQUENCE LISTING

<110> Mochly-Rosen, Daria

<120> Peptides for Activation and Inhibition
of delta-PKC

<130> 58600-8208.US00

<140> Not Yet Assigned
<141> Filed Herewith

<150> US 60/262,060
<151> 2001-01-18

<160> 72

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> epsilon V1-2, residues 14-21 of epsilon-PKC

<400> 1
Glu Ala Val Ser Leu Lys Pro Thr
1 5

<210> 2
<211> 141
<212> PRT
<213> Rattus norvegicus

<400> 2
Met Ala Pro Phe Leu Arg Ile Ser Phe Asn Ser Tyr Glu Leu Gly Ser
1 5 10 15
Leu Gln Ala Glu Asp Asp Ala Ser Gln Pro Phe Cys Ala Val Lys Met
20 25 30
Lys Glu Ala Leu Thr Thr Asp Arg Gly Lys Thr Leu Val Gln Lys Lys
35 40 45
Pro Thr Met Tyr Pro Glu Trp Lys Ser Thr Phe Asp Ala His Ile Tyr
50 55 60
Glu Gly Arg Val Ile Gln Ile Val Leu Met Arg Ala Ala Glu Asp Pro
65 70 75 80
Met Ser Glu Val Thr Val Gly Val Ser Val Leu Ala Glu Arg Cys Lys
85 90 95
Lys Asn Asn Gly Lys Ala Glu Phe Trp Leu Asp Leu Gln Pro Gln Ala
100 105 110
Lys Val Leu Met Cys Val Gln Tyr Phe Leu Glu Asp Gly Asp Cys Lys
115 120 125
Gln Ser Met Arg Ser Glu Glu Glu Ala Met Phe Pro Thr
130 135 140

<210> 3
<211> 124
<212> PRT
<213> Mus musculus

<400> 3
Met Ser Pro Phe Leu Arg Ile Gly Leu Ser Asn Phe Asp Cys Gly Ser
1 5 10 15

Cys Gln Ser Cys Gln Gly Glu Ala Val Asn Pro Tyr Cys Ala Val Leu
20 25 30
Val Lys Glu Tyr Val Glu Ser Glu Asn Gly Gln Met Tyr Ile Gln Lys
35 40 45
Lys Pro Thr Met Tyr Pro Pro Trp Asp Ser Thr Phe Asp Ala His Ile
50 55 60
Asn Lys Gly Arg Val Met Gln Ile Ile Val Lys Gly Lys Asn Val Asp
65 70 75 80
Leu Ile Ser Glu Thr Thr Val Glu Leu Tyr Ser Leu Ala Glu Arg Cys
85 90 95
Arg Lys Asn Asn Gly Lys Thr Glu Ile Trp Leu Glu Leu Lys Pro Gln
100 105 110
Gly Arg Met Leu Met Asn Ala Arg Tyr Phe Leu Glu
115 120

<210> 4
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 4
Ser Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 5
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 5
Ala Leu Thr Thr Asp Arg Gly Lys Leu Val
1 5 10

<210> 6
<211> 8
<212> PRT
<213> Rattus norvegicus

<400> 6
Met Arg Ala Ala Glu Asp Pro Met
1 5

<210> 7
<211> 58
<212> PRT
<213> Rattus norvegicus

<400> 7
Pro Phe Arg Pro Lys Val Lys Ser Pro Arg Asp Tyr Ser Asn Phe Asp
1 5 10 15
Gln Glu Phe Leu Asn Glu Lys Ala Arg Leu Ser Tyr Ser Asp Lys Asn
20 25 30
Leu Ile Asp Ser Met Asp Gln Ser Ala Phe Ala Gly Phe Ser Phe Val
35 40 45
Asn Pro Lys Phe Glu His Leu Leu Glu Asp
50 55

<210> 8
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Drosophila Antennapedia homeodomain-derived
carrier peptide

<400> 8
Cys Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys
1 5 10 15
Lys

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Tat-derived carrier peptide

<400> 9
Tyr Gly Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 10
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> beta-PKC-selective activator peptide

<400> 10
Ser Val Glu Ile Trp Asp
1 5

<210> 11
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 11
Met Lys Ala Ala Glu Asp Pro Met
1 5

<210> 12
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 12
Met Arg Gly Ala Glu Asp Pro Met
1 5

<210> 13
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 13
Met Arg Ala Gly Glu Asp Pro Met

1 5

<210> 14
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 14
Met Arg Ala Pro Glu Asp Pro Met
1 5

<210> 15
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 15
Met Arg Ala Asn Glu Asp Pro Met
1 5

<210> 16
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 16
Met Arg Ala Ala Asp Asp Pro Met
1 5

<210> 17
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 17
Met Arg Ala Ala Glu Asp Pro Val
1 5

<210> 18
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 18
Met Arg Ala Ala Glu Asp Pro Ile
1 5

<210> 19
<211> 8
<212> PRT

<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 19
Met Arg Ala Ala Glu Asp Pro Leu
 1   5

<210> 20
<211> 4
<212> PRT
<213> Rattus norvegicus

<400> 20
Glu Asp Pro Met
 1

<210> 21
<211> 5
<212> PRT
<213> Rattus norvegicus

<400> 21
Ala Glu Asp Pro Met
 1   5

<210> 22
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 22
Met Arg Ala Ala Glu Asp Met Pro
 1   5

<210> 23
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 23
Met Glu Ala Ala Glu Asp Pro Met
 1   5

<210> 24
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 24
Met Asp Ala Ala Glu Asp Pro Met
 1   5

<210> 25
<211> 8

<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 25
Met Arg Ala Ala Glu Glu Pro Leu
 1   5

<210> 26
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 26
Met Arg Ala Ala Glu Asp Pro Leu
 1   5

<210> 27
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 27
Met Arg Ala Ala Glu Glu Pro Ile
 1   5

<210> 28
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 28
Met Arg Ala Ala Glu Glu Pro Val
 1   5

<210> 29
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 29
Met Arg Ala Ala Glu Asp Pro Val
 1   5

<210> 30
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 30
Met Arg Ala Ala Asn Asp Pro Met
1 5

<210> 31
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 31
Met Arg Ala Ala Gln Asp Pro Met
1 5

<210> 32
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 32
Met Arg Ala Ala Glu Gln Pro Met
1 5

<210> 33
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> modified pseudo-delta RACK peptide

<400> 33
Met Arg Ala Ala Glu Asn Pro Met
1 5

<210> 34
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 34
Thr Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 35
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 35
Ala Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 36
Ser Phe Asn Ser Tyr Glu Leu Gly Thr Leu
 1   5   10

<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 37
Thr Phe Asn Ser Tyr Glu Leu Gly Thr Leu
 1   5   10

<210> 38
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 38
Ser Tyr Asn Ser Tyr Glu Leu Gly Ser Leu
 1   5   10

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 39
Ser Phe Asn Ser Phe Glu Leu Gly Ser Leu
 1   5   10

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 40
Ser Asn Ser Tyr Asp Leu Gly Ser Leu
 1   5

<210> 41
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 41
Ser Phe Asn Ser Tyr Glu Leu Pro Ser Leu
 1   5   10

<210> 42
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 42
Ser Phe Asn Ser Tyr Glu Ile Gly Ser Val
 1   5   10

<210> 43
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 43
Ser Phe Asn Ser Tyr Glu Val Gly Ser Ile
 1   5   10

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 44
Ser Phe Asn Ser Tyr Glu Leu Gly Ser Val
 1   5   10

<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 45
Ser Phe Asn Ser Tyr Glu Leu Gly Ser Ile
 1   5   10

<210> 46
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 46
Ser Phe Asn Ser Tyr Glu Ile Gly Ser Leu

1 5 10

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 47
Ser Phe Asn Ser Tyr Glu Val Gly Ser Leu
1 5 10

<210> 48
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-1 peptide

<400> 48
Ala Phe Asn Ser Tyr Glu Leu Gly Ser Leu
1 5 10

<210> 49
<211> 6
<212> PRT
<213> Rattus norvegicus

<400> 49
Tyr Glu Leu Gly Ser Leu
1 5

<210> 50
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 50
Tyr Asp Leu Gly Ser Leu
1 5

<210> 51
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 51
Phe Asp Leu Gly Ser Leu
1 5

<210> 52
<211> 6
<212> PRT
<213> Artificial Sequence

<220>

<223> modified fragment of delta V1-1 peptide

<400> 52
Tyr Asp Ile Gly Ser Leu
1 5

<210> 53
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 53
Tyr Asp Val Gly Ser Leu
1 5

<210> 54
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 54
Tyr Asp Leu Pro Ser Leu
1 5

<210> 55
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 55
Tyr Asp Leu Gly Leu Leu
1 5

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 56
Tyr Asp Leu Gly Ser Ile
1 5

<210> 57
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 57
Tyr Asp Leu Gly Ser Val
1 5

<210> 58
<211> 4
<212> PRT
<213> Rattus norvegicus

<400> 58
Leu Gly Ser Leu
 1

<210> 59
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 59
Ile Gly Ser Leu
 1

<210> 60
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 60
Val Gly Ser Leu
 1

<210> 61
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 61
Leu Pro Ser Leu
 1

<210> 62
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 62
Leu Gly Leu Leu
 1

<210> 63
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 63
Leu Gly Ser Ile
1

<210> 64
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> modified fragment of delta V1-1 peptide

<400> 64
Leu Gly Ser Val
1

<210> 65
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 65
Ala Leu Ser Thr Asp Arg Gly Lys Thr Leu Val
1 5 10

<210> 66
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 66
Ala Leu Thr Ser Asp Arg Gly Lys Thr Leu Val
1 5 10

<210> 67
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 67
Ala Leu Thr Thr Asp Arg Gly Lys Ser Leu Val
1 5 10

<210> 68
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 68
Ala Leu Thr Thr Asp Arg Pro Lys Thr Leu Val
1 5 10

<210> 69
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 69
Ala Leu Thr Thr Asp Arg Gly Arg Thr Leu Val
 1   5   10

<210> 70
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 70
Ala Leu Thr Thr Asp Lys Gly Lys Thr Leu Val
 1   5   10

<210> 71
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> modified delta V1-2 peptide

<400> 71
Ala Leu Thr Thr Asp Lys Gly Lys Thr Leu Val
 1   5   10

<210> 72
<211> 320
<212> PRT
<213> Homo sapiens

<400> 72
Met Ala Gln Val Leu Arg Gly Thr Val Thr Asp Phe Pro Gly Phe Asp
 1   5   10   15
Glu Arg Ala Asp Ala Glu Thr Leu Arg Lys Ala Met Lys Gly Leu Gly
            20   25   30
Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu Thr Ser Arg Ser Asn Ala
        35   40   45
Gln Arg Gln Glu Ile Ser Ala Ala Phe Lys Thr Leu Phe Gly Arg Asp
    50   55   60
Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe Glu Lys Leu
65   70   75   80
Ile Val Ala Leu Met Lys Pro Ser Arg Leu Tyr Asp Ala Tyr Glu Leu
                85   90   95
Lys His Ala Leu Lys Gly Ala Gly Thr Asn Glu Lys Val Leu Thr Glu
            100   105   110
Ile Ile Ala Ser Arg Thr Pro Glu Glu Leu Arg Ala Ile Lys Gln Val
        115   120   125
Tyr Glu Glu Glu Tyr Gly Ser Ser Leu Glu Asp Asp Val Val Gly Asp
    130   135   140
Thr Ser Gly Tyr Tyr Gln Arg Met Leu Val Val Leu Leu Gln Ala Asn
145   150   155   160
Arg Asp Pro Asp Ala Gly Ile Asp Glu Ala Gln Val Glu Gln Asp Ala
                165   170   175
Gln Ala Leu Phe Gln Ala Gly Glu Leu Lys Trp Gly Thr Asp Glu Glu

Lys Phe Ile Thr Ile Phe Gly Thr Arg Ser Val Ser His Leu Arg Lys
180 185 190
195 200 205
Val Phe Asp Lys Tyr Met Thr Ile Ser Gly Phe Gln Ile Glu Glu Thr
210 215 220
Ile Asp Arg Glu Thr Ser Gly Asn Leu Glu Gln Leu Leu Leu Ala Val
225 230 235 240
Val Lys Ser Ile Arg Ser Ile Pro Ala Tyr Leu Ala Glu Thr Leu Tyr
245 250 255
Tyr Ala Met Lys Gly Ala Gly Thr Asp Asp His Thr Leu Ile Arg Val
260 265 270
Met Val Ser Arg Ser Glu Ile Asp Leu Phe Asn Ile Arg Lys Glu Phe
275 280 285
Arg Lys Asn Phe Ala Thr Ser Leu Tyr Ser Met Ile Lys Gly Asp Thr
290 295 300
Ser Gly Asp Tyr Lys Lys Ala Leu Leu Leu Leu Cys Gly Glu Asp Asp
305 310 315 320